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PATENT  
Attorney Docket No.: 018564-007810US

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

On March 3, 2004



TOWNSEND and TOWNSEND and CREW LLP

By: Marta Vanegas

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of:

Steinthal, Gregory et al.

Application No.: 10/624,194

Filed: July 21, 2003

For: NON-SPECIFIC SENSOR ARRAY  
DETECTORS

Examiner: not yet assigned

Art Unit: 2632

INFORMATION DISCLOSURE  
STATEMENT UNDER 37 CFR §1.97 and  
§1.98

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

The references cited on attached form PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. Copies of reference Nos. 25 through 48 are enclosed. It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

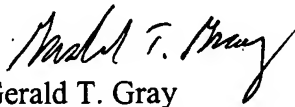
As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no

representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

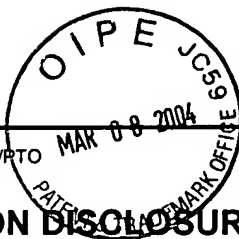
Applicant believes that no fee is required for submission of this statement.

However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,

  
Gerald T. Gray  
Reg. No. 41,797

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60136940 v1



PTO/SB/08A (08-03)

Substitute for form 1449A/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	10/624,194
		Filing Date	July 21, 2003
		First Named Inventor	Steinthal, Gregory
		Art Unit	2632
		Examiner Name	not yet assigned
Sheet 1 of	Attorney Docket Number	018564-007810US	

U.S. PATENT DOCUMENTS+					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	US-60/477,624	n/a	Sunshine	Atty.Docket No.: 018564-007500US
	2	US-4,453,126 A	06-1984	Volgyesi	
	3	US-4,644,101 A	02-1987	Jin et al.	
	4	US-4,737,112 A	04-1988	Jin et al.	
	5	US-4,923,739 A	05-1990	Jin et al.	
	6	US-4,980,541 A	12-1990	Shafe et al.	
	7	US-5,104,210 A	04-1992	Tokas	
	8	US-5,200,334	04-1993	Dunn et al.	
	9	US-5,298,783 A	03-1994	Xinghui	
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	14	US-5,571,401 A	11-1996	Lewis et al.	
	15	US-5,677,662 A	10-1997	Bresolin et al.	
	16	US-5,788,833	08-04-1998	Lewis et al.	
	17	US-5,814,524	09-28-1998	Walt et al.	
	18	US-6,085,576	07-11-2000	Sunshine et al.	Atty.Docket No.: 018564-003230US
	19	US-6,192,351 B1	05-20-2001	Persaud	
	20	US-6,236,951 B1	05-22-2001	Payne et al.	
	21	US-6,336,936 B1	01-08-2002	Simhambhatla et al.	
	22	US-6,422,061 B1	07-23-2002	Sunshine et al.	Atty.Docket No.: 18564I-003810US
	23	US-6,537,498 B1	03-25-2003	Lewis et al.	
	24	US-2003-0186461-A1	10-02-2003	Boehr et al.	Atty.Docket No.: 018564-007600US

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	25 ✓	WO	00/79243	A1	12-28-2000	Cyrano Sciences, Inc.		<input type="checkbox"/>
	26 ✓	WO	97/14958	A1	04-24-1997	Aromascan PLC		<input type="checkbox"/>
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Examiner Signature	Date Considered
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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet **2**

of

**Complete if Known**

Application Number	10/624,194
Filing Date	July 21, 2003
First Named Inventor	Steinthal, Gregory
Art Unit	2632
Examiner Name	not yet assigned
Attorney Docket Number	018564-007810US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published:	T <sup>2</sup>
	27	"BAE Systems - JCAD Chemsentry@ Point Chemical Vapor Detector"; published on the Internet: <a href="http://www.airforce-technology.com/contractors/nbc/bae2/">http://www.airforce-technology.com/contractors/nbc/bae2/</a> ; ✓	
	28	"Joint Services Lightweight Standoff Chemical Agent Detector (JSLSCAD)"; published on the Internet: <a href="http://www.globalsecurity.org/military/systems/ground/jslscad.htm">http://www.globalsecurity.org/military/systems/ground/jslscad.htm</a> ; (Last modif. Jan. 31, 2003) ✓	
	29	AVNIR, D. et al.: "Enzymes and other proteins entrapped in sol-gel materials" <u>Chem. Mater.</u> ; Vol. 6, pp. 1605-1614 (1994) ✓	
	30	CHEN, Q. et al.: "Stability of oxidases immobilized in silica gels" <u>J. Am. Chem. Soc.</u> ; Vol. 120, pp. 4582-4585 (1998) ✓	
	31	DAVE, B.C. et al.: "Photochemical studies using organic-inorganic sol-gel materials" <u>Mat. Res. Soc. Symp. Proc.</u> ; Vol. 435, pp. 565-574 (1996) ✓	
	32	DIAS, M. B.: "Investigating the viability of MEMS vapor sensors for detecting land mines" <u>CMU-RI-TR-00-24</u> ; The Robotics Institute, Carnegie Mellon University, Pittsburgh, PA; October 2000 ✓	
	33	DUTTA, R. et al.: "Bacteria classification using Cyranose 320 electronic nose" <u>Biomed. Engin. OnLine</u> ; Vol. 1, No. 4; published on the Internet: <a href="http://www.biomedical-engineering-online.com/content/1/1/4/">http://www.biomedical-engineering-online.com/content/1/1/4/</a> ; (Oct. 16, 2002) ✓	
	34	JEREMIC, A. and A. NEHORAI: "Landmine detection and localization using chemical sensor array processing" <u>IEEE Trans. Signal Proc.</u> ; Vol. 48, No. 5; May 2000 ✓	
	35	KELLER, et al.: "Electronic noses and their applications" <u>IEEE Northcon/Techn. Appln. Conf.</u> ; Portland OR; October 12, 1995 ✓	
	36	KELLER, P. E. et al.: "Three neutral network based sensor systems for environmental monitoring" <u>IEEE Electro@94 Int'l Conf.</u> , Boston, MA; Paper No. PNL-SA-24175 (May 10-12, 1994) ✓	
	37	LACEY, R. E. and G. S. OSBORN: "Application of electronic noses in measuring biological systems" <u>ASAE Meeting Presentation at the 1998 ASAE Annual Int'l Meeting</u> , Orlando, FL; Paper No. 98/6116 (July 12-15, 1998) ✓	
	38	LAN, E.H. et al.: "HEME proteins encapsulated in sol-gel derived silica glasses and their reactions with ligands" <u>Mat. Res. Soc. Symp. Proc.</u> ; Vol. 330, pp. 289-294 (1994) ✓	
	39	LI, Y.: "The Cyranose Chemical Vapor Analyzer"; published on the Internet: <a href="http://www.sensorsmag.com/articles/0800/56/main.shtml">http://www.sensorsmag.com/articles/0800/56/main.shtml</a> ; (Aug. 2000) ✓	
	40	LIVAGE, J. et al.: "Immunoassays in sol-gel matrices" <u>J. Sol-Gel Sci. Technol.</u> ; Vol. 7, pp. 45-51 (1996) ✓	
	41	MILLER, J.M. et al.: "Synthesis conditions for encapsulating cytochrome c and catalase in SiO <sub>2</sub> sol-gel materials" <u>J. Non-Crystalline Solids</u> , Vol. 202, pp. 279-289 (1996) ✓	
	42	OULLETTE, J.: "Electronic noses sniff out new markets" <u>The Industrial Physicist</u> ; February 1999; pp. 26-29 (1999) ✓	

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\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.



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(use as many sheets as necessary)

Sheet

3

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Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	43	POPE, E.J.A. et al.: "Bioartificial organs I: Silica gel encapsulated pancreatic islets for the treatment of diabetes mellitus" <u>J. Sol-Gel Sci. Technol.</u> ; Vol. 8, pp. 635-639 (1997)	
	44	ROSCH, W.: "Nosing out terrorism" Extremetech.com, published on the Internet: <a href="http://www.extremetech.com/print_article/0,3998,a=16730,00.asp">http://www.extremetech.com/print_article/0,3998,a=16730,00.asp</a> ; (Oct. 18, 2001)	
	45	SKELLEY, D. S.: "E-nose technologies promise new diagnostic instruments" <u>IVD Technology Magazine</u> ; published on the Internet: <a href="http://www.devicelink.com/ivd/archive/00/01/004.html">http://www.devicelink.com/ivd/archive/00/01/004.html</a> ; (Jan. 2000)	
	46	YAMANAKA, S.A. et al.: "Enzymatic activity of glucose oxidase encapsulated in transparent glass by the sol-gel method" <u>Chem. Mater.</u> ; Vol. 4, No. 3; pp. 495-497 (1992)	
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	48	YAMANAKA, S.A. et al.: "Enzymatic activity of oxalate oxidase and kinetic measurements by optical methods in transparent sol-gel monoliths" <u>J. Sol-Gel Sci. Technol.</u> ; Vol. 7, pp. 117-121 (1996)	

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